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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/553,941	04/21/2000	Richard A. Baker, Jr.	SAA-36	6728
7590 12/30/2003			EXAMINER	
MICHAEL J FEMAL			NGUYEN, CHAU T	
SQUARE D COMPANY			ART UNIT	PAPER NUMBER
1415 SOUTH ROSELLE ROAD			AKTONII	TAI ER NOMBER
PALATINE, IL 60067			2176	
			DATE MAIL ED: 12/30/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
_	09/553,941	BAKER, JR., RICHARD A.				
Office Action Summary	Examiner	Art Unit				
•	Chau Nguyen	2176				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however within the statutory minimu ill apply and will expire SIX cause the application to be	may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 N						
, _	s action is non-fina					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-5,8,9 and 11-27 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,8,9 and 11-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) is/are objected to: 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti						
Attachment(s)	z priority arraor oo					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 9	5) 🔲 N	terview Summary (PTO-413) Paper No(s) btice of Informal Patent Application (PTO-152) her:				

DETAILED ACTION

1. Amendment C, received on 11/18/2003, has been entered. Claims 1-5, 8-9, and 11-27 are presented for examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 8-9, 11-18, 20-22, and 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian, U.S. Patent No. 6,343,317, and further in view of Fukui, U.S. Patent No. 6,131,119.
- 4. As to claims 1, 11, and 21, Glorikian discloses a method of communication in an automation environment, comprising a plurality of network devices (col. 1, line 54 col. 2, line 6 and col. 3, lines 53, col. 4, lines 40: client's appliances 29 and 31 enabled to connect to the Internet through integrated cellular telephone via base stations), each

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network device having a software program stored herein (col. 4, lines 8-21: client's appliances 29 and 31, each is enhanced with Internet browser software to be able to access and browse the Internet world), wherein each network device is positioned at a physical location and wherein each network device is adapted to perform a designated function according to the physical location of said each network device, so that the designated functions can be carried out in a coordinated way as required in the automation environment (col. 1, line 54 – col. 2, line 6 and col. 4, line 30 – col. 5, line 11: the GPS apparatus is integrated into the circuitry of the units 29 and 31, and there is a GPS circuitry 57 in each unit 29 and 31 for receiving signals from multiple GPS satellites and for determining a location for the unit from the satellite signals, and also periodic requests are transmitted from the portable units 29 and 31 along with GPS position, updating the information to server13): , said method comprising the steps of:

identifying the physical location of said each network device using a physical site locator (col. 2, line 9 – col. 3, line 3: determining positions (physical location) of the appliances, and the position-determining system (physical site locator) is a GPS receiver at the appliances determining the position of the appliances on the Earth's surface);

However, Glorikian does not disclose associating the identifying physical location to a network address in the automation environment, so that the network address associated to said each network device can be used to caused the stored software

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program to carry out the designated function of said each network device in relation to other network devices.

In the same field of endeavor, Fukui discloses an automatic configuration system maps a device address of each node coupled to a bus structure to a network protocol address corresponding to the physical location of the node (Fukui, Abstract, col. 2, line 43 - col. 3, line 22). Fukui also discloses an automatic configuration system maps a device or media access control (MAC) address of each passenger control unit to the physical location or seat position of the passenger control unit, and each passenger has access to one or more services such as audio and video on demand, video games, gabling, telephone service and information services (the network address associated to each network device to cause the stored software program to carry out the designated function for each device) (Abstract, col. 3, line 51 - col. 4, line 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian and Fukui to include associating the identifying physical location to a network address in the network communications system, so that the network address associated to said each network device can be used in coordinating the designated function of said each network device with the designated function of other network devices in the network communication system. Fukui suggests that mapping devices to their corresponding physical location will make it easy to complete device specific or user specific billing, easy to block service or types of services to particular devices and easy to personalize service to specific devices and users.

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5. As to claim 2, Glorikian and Fukui (Watters-Fukui) disclose wherein the address

of the device is a MAC address (Fukui, col. 4, lines 25-40).

6. As to claim 3, Glorikian-Fukui disclose wherein the address of the device is an IP

address (Fukui, col. 4, lines 24-58).

7. As to claims 4 and 25, Glorikian-Fukui disclose transmitting from the device the

physical location and the address thereof to a controlling station so as to allow the

controlling station to associated the physical location to the address for conveying

signals to the device (Glorikian, col. 2, lines 38-46, col. 4, line 63 - col. 5, line 11; Fukui,

col. 3, line 51 – col. 4, line 58).

8. As to claims 5, 24, and 27, Glorikian-Fukui disclose wherein the device has an

intended function controlled by a software program, said method further comprising the

step of loading the software program from the controlling station to the device after the

physical location of the device is identified (Fukui, col. 3, line 51 – col. 4, line 24).

9. As to claim 12, Glorikian-Fukui disclose a method of communicating with a

plurality of devices in a network communications system wherein each device is

positioned at a physical location, said method comprising the step of converting a map

of the physical locations of the devices into one or more address tables, each table

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including a plurality of network addresses for routing messages to the devices (Glorikian, col. 2, lines 9-45; Fukui, col. 2, line 61 – col. 3, line 11).

- 10. As to claim 13, Glorikian-Fukui disclose wherein a controlling station is used to associate the physical location to the network address of the respective device (Fukui, col. 4, line 59 col. 5, line 11).
- 11. As to claims 8-9, and 26, Glorikian-Fukui disclose a method of communicating with a plurality of devices in an automation environment (Glorikian, col. 1, line 54 col. 2, line 6 and col. 3, lines 53, col. 4, lines 40: client's appliances 29 and 31 enabled to connect to the Internet through integrated cellular telephone via base stations),

at least some of the devices having a software program stored therein (Glorikian, col. 4, lines 8-21: client's appliances 29 and 31, each is enhanced with Internet browser software to be able to access and browse the Internet world),

wherein each device is positioned at a physical location, said method comprising the step of converting a map of the physical locations of the devices into one or more address tables, each table including a plurality of network addresses for routing messages to the devices (Fukui, col. 4, lines 41-58: a system manager unit maps each seat CPU, using its MAC address, to corresponding IP address, and the IP address is mapped to a seat location or position (physical location), wherein at least one of the

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devices comprises a programmable logic controller having a network address assigned thereto from said address table (Fukui, col. 4, line 59 – col. 5, line 11),

and the physical locations of at least some of the devices are identified by a physical locator (Glorikian, col. 2, lines 9-46; Fukui, col. 5, lines 26-42),

so as to cause the software program stored in each of said at least some of the devices to carry out a designated function coordinated in relation to other network devices as required in the automation environment (Fukui discloses an automatic configuration system maps a device address of each node coupled to a bus structure to a network protocol address corresponding to the physical location of the node (Fukui, Abstract, col. 2, line 43 – col. 3, line 22). Fukui also discloses an automatic configuration system maps a device or media access control (MAC) address of each passenger control unit to the physical location or seat position of the passenger control unit, and each passenger has access to one or more services such as audio and video on demand, video games, gabling, telephone service and information services (the network address associated to each network device to cause the stored software program to carry out the designated function for each device) (Abstract, col. 3, line 51 – col. 4, line 58).

12. As to claim 14, Glorikian-Fukui disclose the network communications system comprising a local area network (LAN) (Fukui, col. 2, lines 49-60).

- 13. As to claim 15, Glorikian-Fukui disclose the network communications system comprising a wide area network (WAN) (Glorikian, col. 1, line 34 col. 2, line 65).
- 14. As to claim 16, Glorikian-Fukui disclose the network communications system comprising a wireless access communications system (Glorikian, col. 2, lines 9-21).
- 15. As to claim 17, Glorikian-Fukui disclose wherein each device has a unique physical location (Fukui, col. 4, lines 41-58).
- 16. As to claim 18, Glorikian-Fukui disclose wherein a plurality of devices share one of the physical locations (Glorikian, col. 5, lines 26-42).
- 17. As to claim 20, Glorikian-Fukui and Scott disclose wherein each device has an IP address and means for transmitting the IP address and the shared physical location in a RARP message to a controlling station in order to establish the address of the device in the network communications system (Scott, col. 1, line 57 col. 2, line 34).
- 18. As to claim 22, Glorikian-Fukui disclose wherein the identifying means comprises a GPS site locator (Glorikian, col. 2, lines 22-31).

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- 19. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian and Fukui as applied to claims 1-5, 8-9, 11-18, 20-22, and 24-27 above, and further in view of Scott, U.S. Patent No. 6,195,706.
- 20. As to claim 19, Glorikian-Fukui disclose each device has a MAC address (Fukui, col. 4, lines 41-58). However, Glorikian-Fukui do not disclose wherein means for transmitting the MAC address and the shared physical location in a RARP message to a controlling station in order to establish the address of the device in the network communications system. In the same field of endeavor, Scott discloses RARP is well known to those of ordinary skill in the relevant arts, and using RARP mechanism for controlling operation of the network address mechanisms (col. 1, line 57 col. 2, line 34). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian-Fukui and Scott to include transmitting the MAC address and the shared physical location in a RARP message to a controlling station in order to establish the address of the device in the network communications system, since Scott suggests that using RARP to determine the system IP address.
- 21. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glorikian and Fukui as applied to claims 1-5, 8-9, 11-18, 20-22, and 24-27 above, and further in view of Watters et al. (Watters), U.S. Patent No. 6,249,245.

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22. As to claim 23, Glorikian-Fukui disclose the limitations as discussed in claims 1-5, 8-9, 11-18, 20-22, and 24-27 above. However, Glorikian-Fukui do not disclose wherein the identifying means comprises a TDOA device. In the same field of endeavor, Watters discloses calculating position using TDOA measurements when the actual time of transmission is not known (col. 4, line 66 – col. 5, line 13). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian-Fukui and Watters to include a TDOA device to for determining location in a cellular network portion of the system in case GPS

Response to Arguments

23. In the remarks, Applicant argued in the substance that

satellites are not in clear view of the GPS receiver.

(A) Prior art does not disclose or suggest at least some of the devices in an automation environment having a software program stored therein, the physical locations of at least some of the devices are identified by a physical site locator, so as to cause the software program stored in each of said at least some of the devices to carry out a designated function coordinated in relation to other network devices as required in the automation environment.

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As to point (A), Glorikian discloses identifying the physical location of said each network device using a physical site locator (col. 2, line 9 – col. 3, line 3: determining positions (physical location) of the appliances, and the position-determining system (physical site locator) is a GPS receiver at the appliances determining the position of the appliances on the Earth's surface);

However, Glorikian does not disclose associating the identifying physical location to a network address in the automation environment, so that the network address associated to said each network device can be used to caused the stored software program to carry out the designated function of said each network device in relation to other network devices.

In the same field of endeavor, Fukui discloses an automatic configuration system maps a device address of each node coupled to a bus structure to a network protocol address corresponding to the physical location of the node, and a topology map, including the device addresses of the nodes within the network and their relationship to each other (Fukui, Abstract, col. 2, line 43 – col. 3, line 22). Fukui also discloses an automatic configuration system maps a device or media access control (MAC) address of each passenger control unit to the physical location or seat position of the passenger control unit, and each passenger has access to one or more services such as audio and video on demand, video games, gabling, telephone service and information services (the network address associated to each network device to cause the stored software

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program to carry out the designated function for each device) (Abstract, col. 3, line 51 – col. 4, line 58). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Glorikian and Fukui to include associating the identifying physical location to a network address in the network communications system, so that the network address associated to said each network device can be used in coordinating the designated function of said each network device with the designated function of other network devices in the network communication system. Fukui suggests that mapping devices to their corresponding physical location will make it easy to complete device specific or user specific billing, easy to block service or types of services to particular devices and easy to personalize service to specific devices and users.

24. Applicant's arguments and amendments filed on 11/18/2003 have been fully considered but they are not deemed fully persuasive. Please see the explanation of the rejection and response to arguments above.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (703) 305-4639. The Examiner can normally be reached on Monday-Friday from 8:00 am to 6:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Joseph Feild, can be reached at (703) 305-9792.

The fax phone numbers for the organization where this application is assigned are as follows:

(703) 872-9306 (After Final Communications only)

(703) 872-9306 (Official Communications)

(703) 746-7240 (for Official Status Inquiries, Draft Communications only)

Inquiries of a general nature relating to the general status of this application or proceeding should be directed to the 2100 Group receptionist whose telephone number is (703) 305-3900.

Chau Nguyen Patent Examiner Art Unit 2176

JOSEPH H. FEILD PRIMARY EXAMINER